

Title (en)
METHOD AND APPARATUS FOR ENHANCED AUTONOMOUS GPS

Title (de)
VERFAHREN UND VORRICHTUNG FÜR EIN VERBESSERTES AUTONOMES GPS

Title (fr)
PROCEDE ET DISPOSITIF DE LOCALISATION GPS AUTONOME PERFECTIONNES

Publication
EP 1851564 A4 20111123 (EN)

Application
EP 06734581 A 20060209

Priority

- US 2006004422 W 20060209
- US 5706005 A 20050211

Abstract (en)
[origin: US2005212700A1] Method and apparatus for locating position of a remote receiver is described. In one example, long term satellite tracking data is obtained at a remote receiver. Satellite positioning system (SPS) satellites are detected. Pseudoranges are determined from the remote receiver to the detected SPS satellites. Position of the remote receiver is computed using the pseudoranges and the long term satellite tracking data. SPS satellites may be detected using at least one of acquisition assistance data computed using a previously computed position and a blind search. Use of long term satellite tracking data obviates the need for the remote receiver to decode ephemeris from the satellites. In addition, position of the remote receiver is computed without obtaining an initial position estimate from a server or network.

IPC 8 full level
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G01S 19/06 (2013.01 - EP US); **G01S 19/252** (2013.01 - EP US); **G01S 19/254** (2013.01 - EP US); **G01S 19/256** (2013.01 - EP US)

Citation (search report)

- [X1] WO 2004031800 A1 20040415 - GLOBAL LOCATE INC [US]
- [E] EP 1794612 A2 20070613 - SIRF TECH INC [US]
- [E] EP 1637900 A1 20060322 - SEIKO EPSON CORP [JP]
- [X1] GB 2271902 A 19940427 - CATERPILLAR INC [US]
- See references of WO 2006086468A1

Designated contracting state (EPC)
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US 2005212700 A1 20050929; US 7595752 B2 20090929; CN 101142495 A 20080312; CN 101142495 B 20110427; EP 1851564 A1 20071107; EP 1851564 A4 20111123; EP 1851564 B1 20180110; HK 1120308 A1 20090327; JP 2008538234 A 20081016; KR 100958090 B1 20100514; KR 20070110028 A 20071115; US 2009309794 A1 20091217; US 2012229335 A1 20120913; US 8134500 B2 20120313; US 8643541 B2 20140204; WO 2006086468 A1 20060817

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